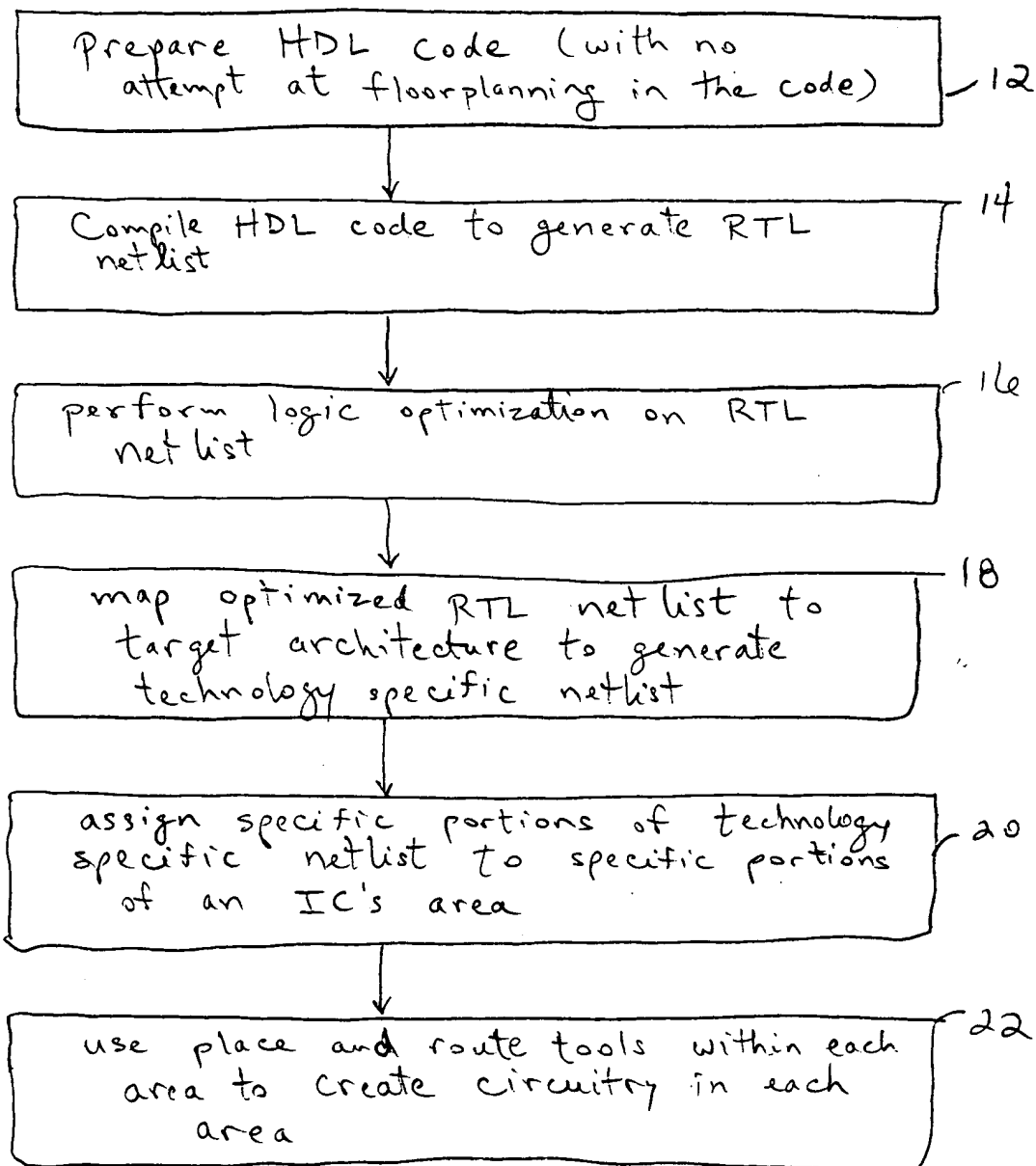


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30 Figs.

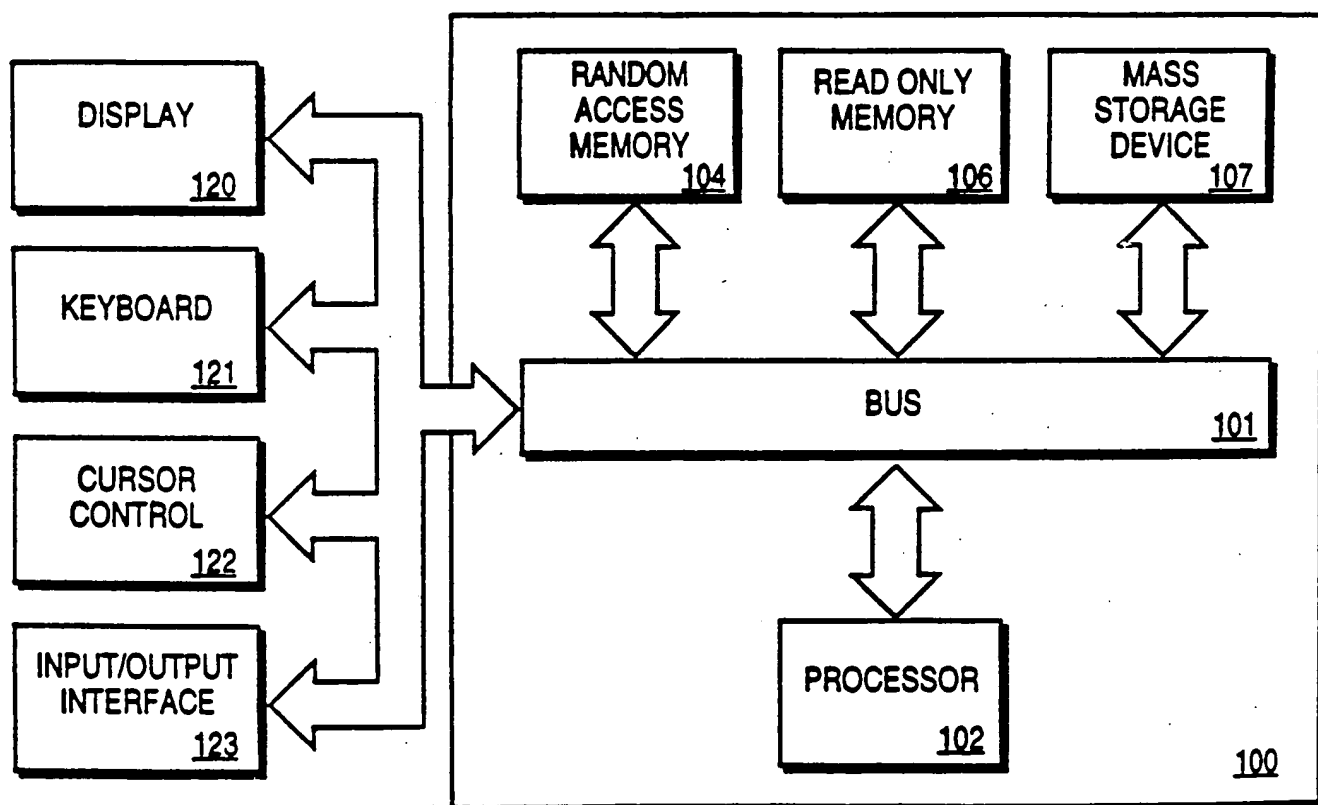
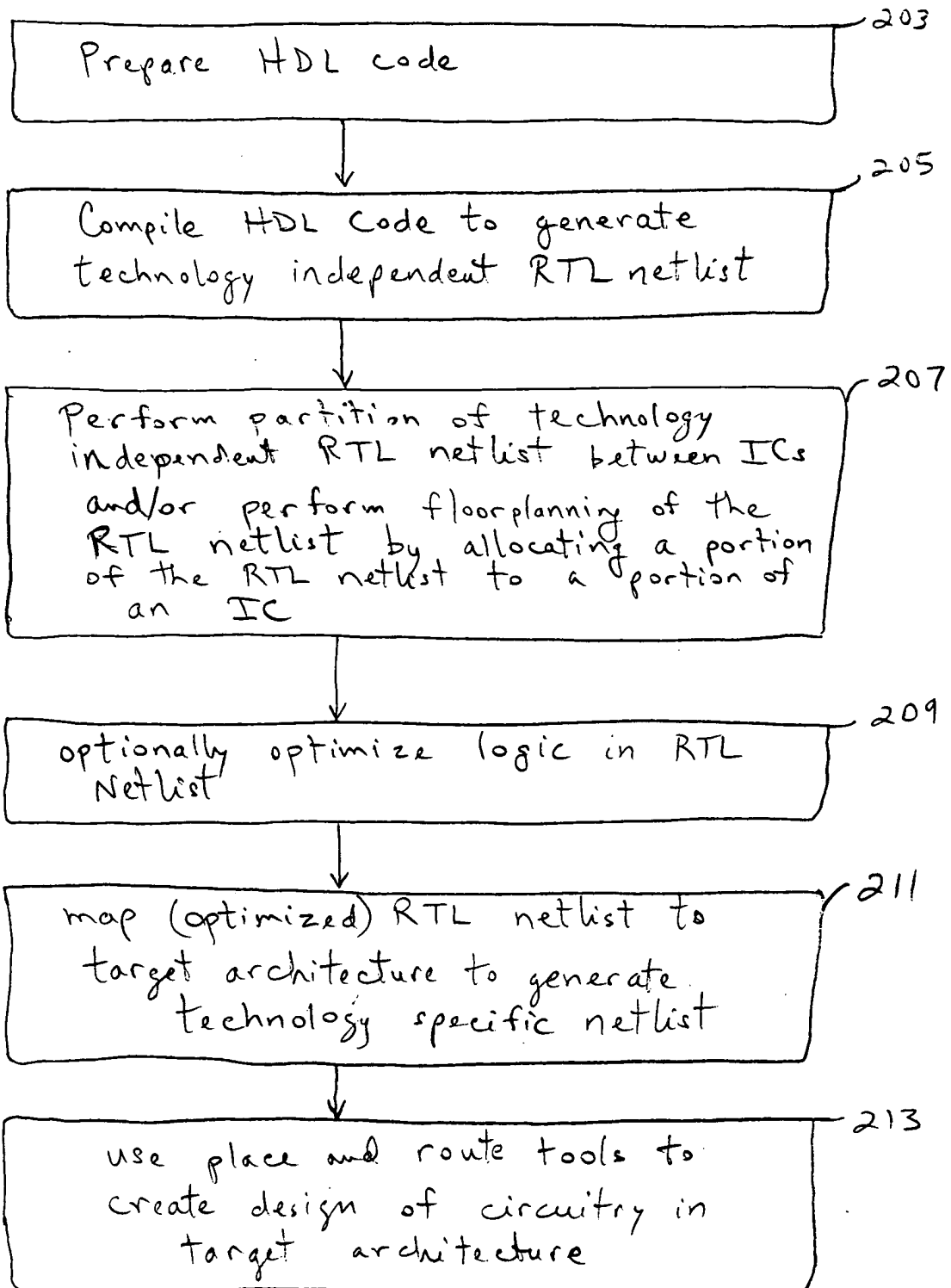


FIG. 2

13-782	500 SHEETS FULLER	5 SQUARE
42-391	50 SHEETS EYE-EASE*	5 SQUARE
42-382	100 SHEETS EYE-EASE*	5 SQUARE
42-389	200 SHEETS EYE-EASE*	5 SQUARE
42-392	100 RECYCLED WHITE	5 SQUARE
42-399	200 RECYCLED WHITE	5 SQUARE

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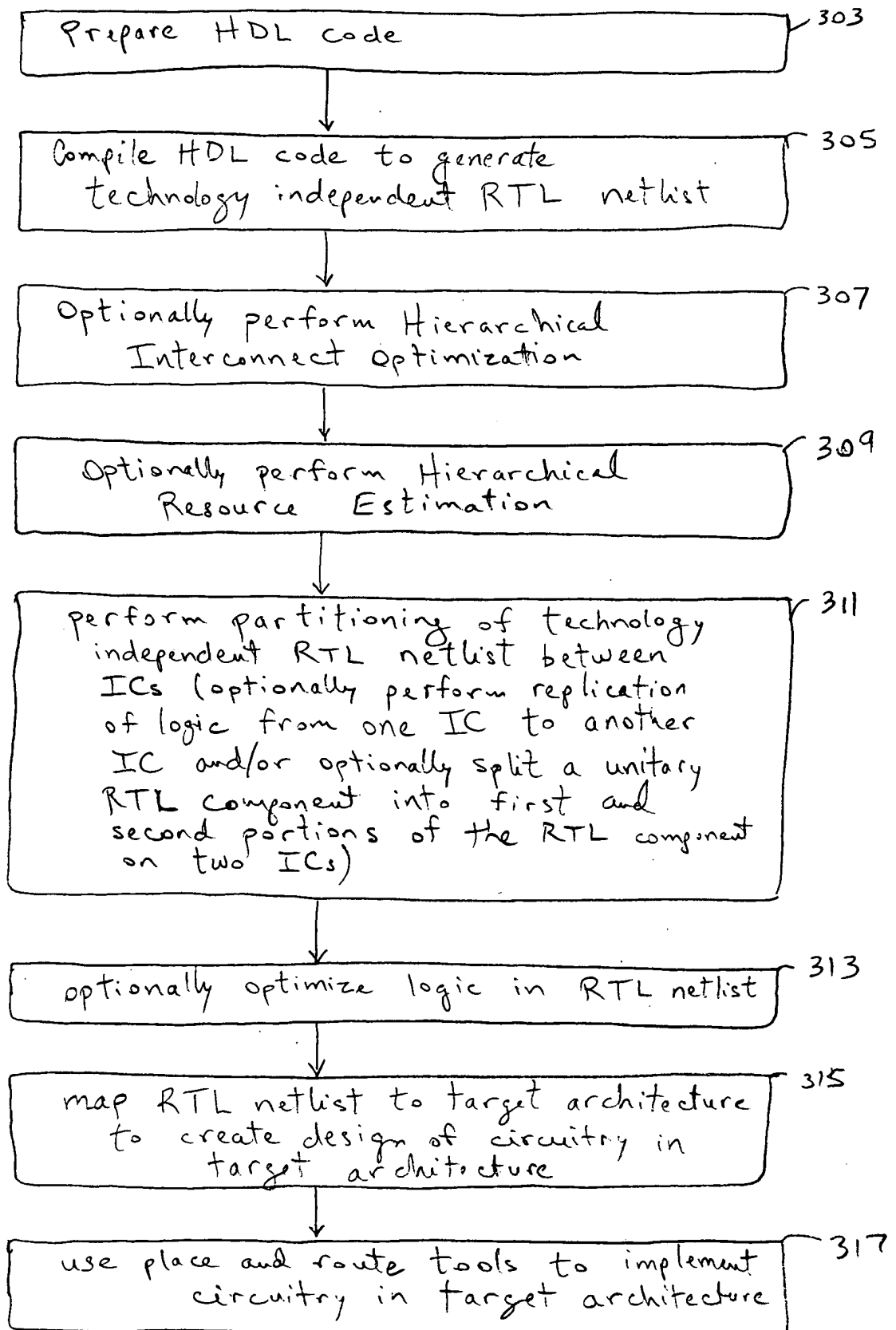
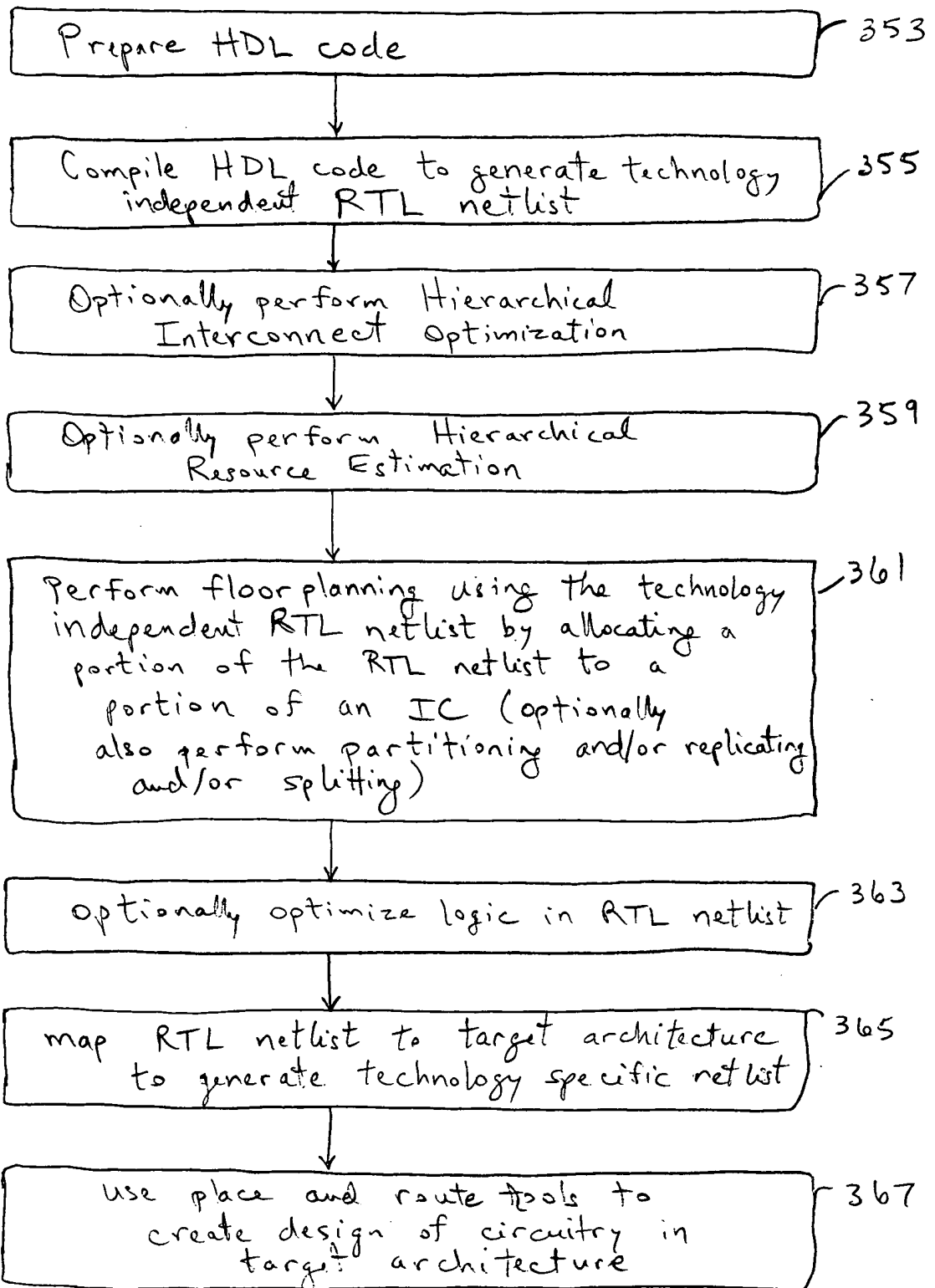


FIG. 4B

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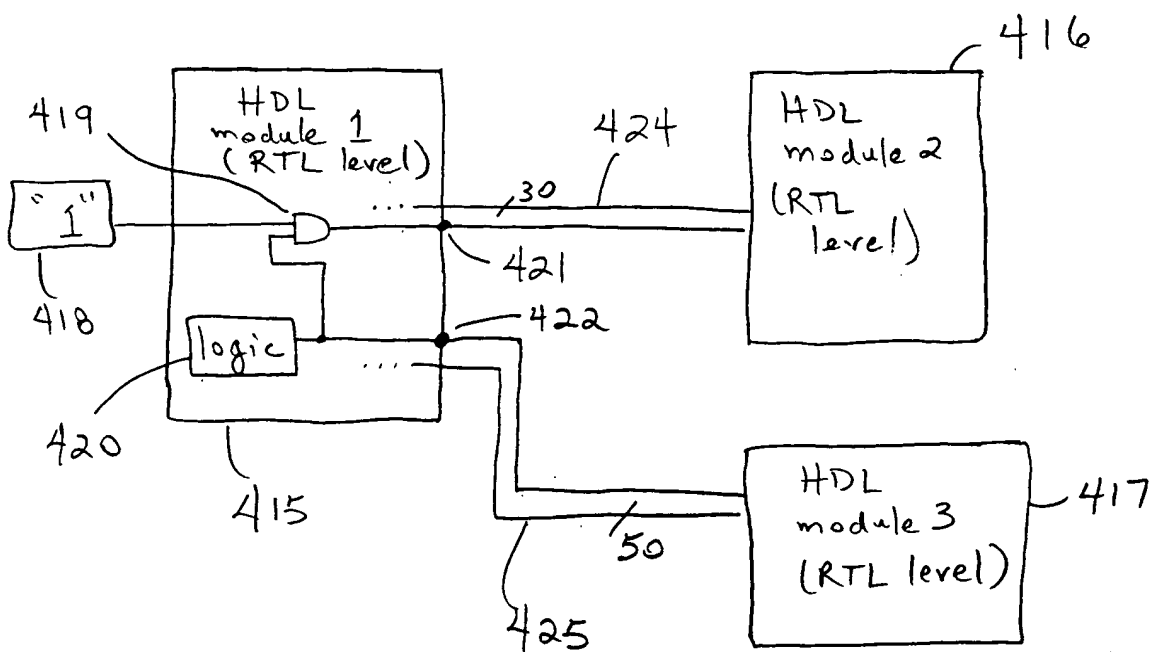


Hierarchical Interconnect Optimization ⁴⁰¹

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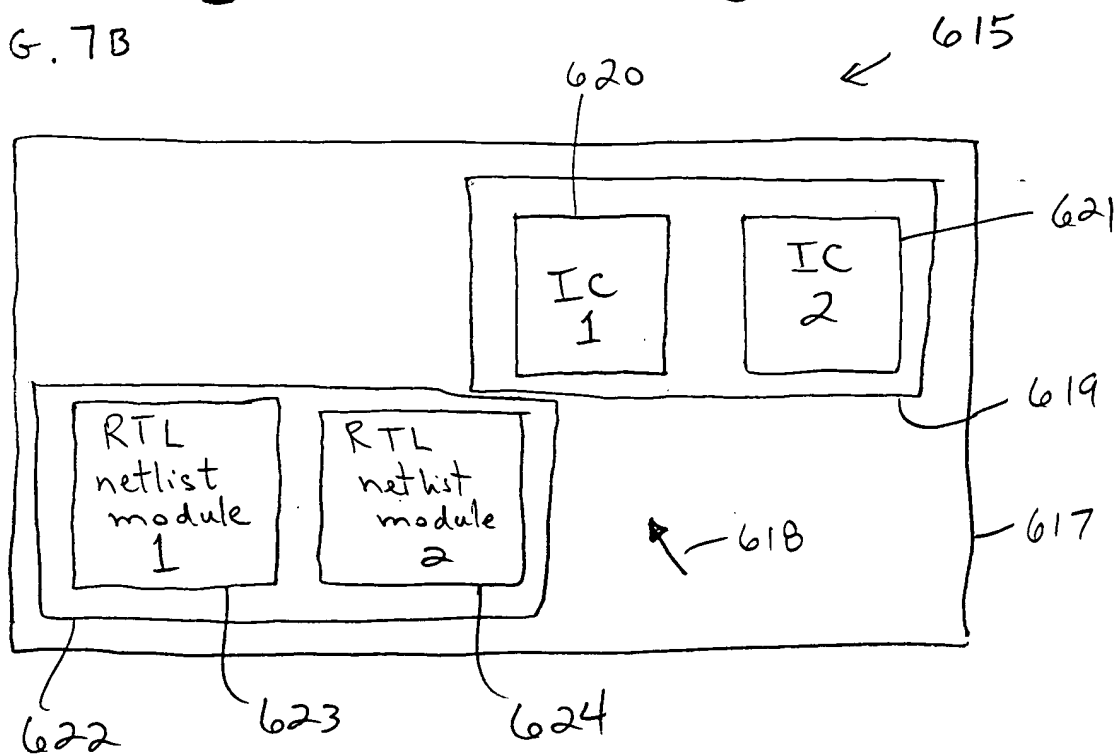


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7-605

✓ 607

FIG. 7B



15-782 500 SHEETS FULLER'S SQUARE
42-382 100 SHEETS FULLER'S SQUARE
42-382 50 SHEETS FULLER'S SQUARE
42-382 100 SHEETS EYE-EASE SQUARE
42-389 200 SHEETS EYE-EASE SQUARE
42-392 100 RECYCLED WHITE SQUARE
42-393 200 RECYCLED WHITE SQUARE
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Fig. 8A

701

```
module prep2_2 (DATA0, DATA1, DATA2, LDPRE, SEL, RST, CLK, LDCOMP);
output [7:0] DATA0 ;
input [7:0] DATA1, DATA2;
input LDPRE, SEL, RST, CLK, LDCOMP;
wire [7:0] DATA0_internal;
prep2_1 inst1 (CLK, RST, SEL, LDCOMP, LDPRE, DATA1, DATA2, DATA0_internal);
prep2_1 inst2 (CLK, RST, SEL, LDCOMP, LDPRE, DATA0_internal, DATA2, DATA0);
endmodule
```

-703

```
module prep2_1 (CLK, RST, SEL, LDCOMP, LDPRE, DATA1, DATA2, DATA0);
input CLK, RST, SEL, LDCOMP, LDPRE ;
input [7:0] DATA1, DATA2 ;
output [7:0] DATA0;
reg [7:0] DATA0;
reg [7:0] highreg_output, lowreg_output; // internal registers

wire compare_output = (DATA0 == lowreg_output); // comparator
wire [7:0] mux_output = SEL ? DATA1 : highreg_output; // mux

// registers
always @ (posedge CLK or posedge RST)
begin
    if (RST) begin
        highreg_output = 0;
        lowreg_output = 0;
    end else begin
        if (LDPRE)
            highreg_output = DATA2;
        if (LDCOMP)
            lowreg_output = DATA2;
    end
end

// counter
always @ (posedge CLK or posedge RST)
begin
    if (RST)
        DATA0 = 0;
    else if (compare_output) // load
        DATA0 = mux_output;
    else
        DATA0 = DATA0 + 1;
end
endmodule
```

-705

FIG. 8B

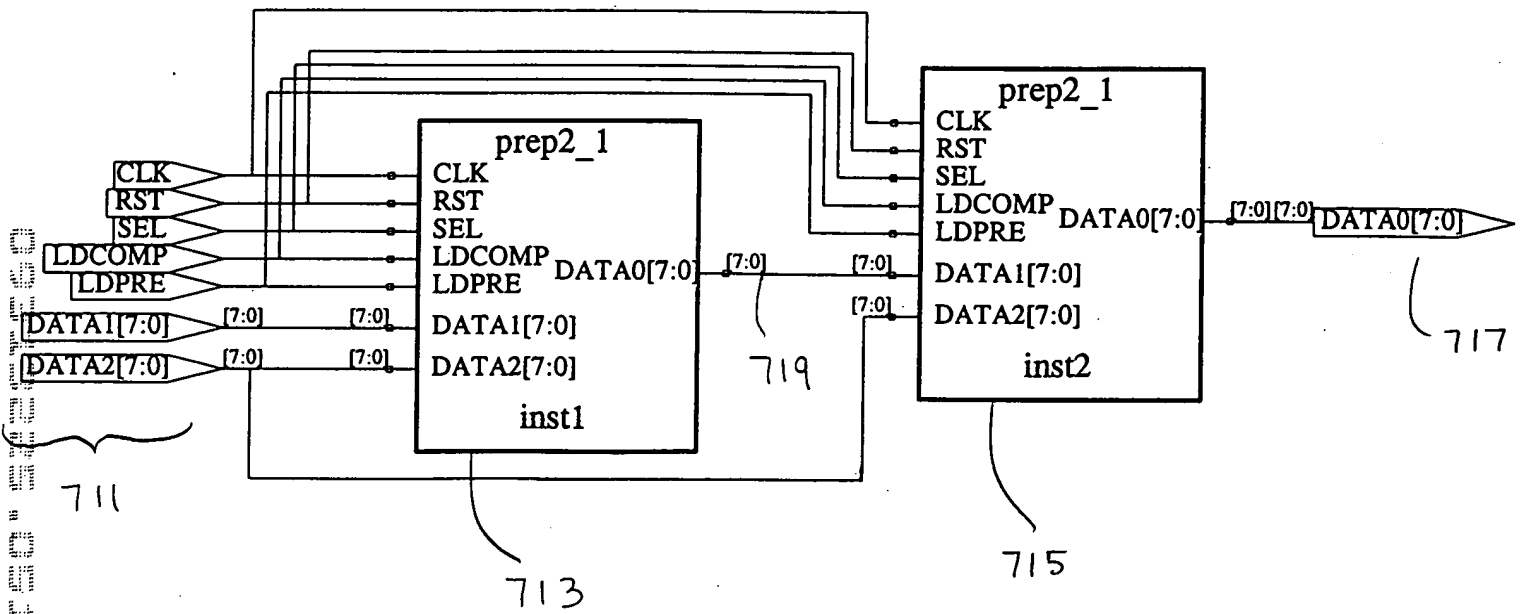
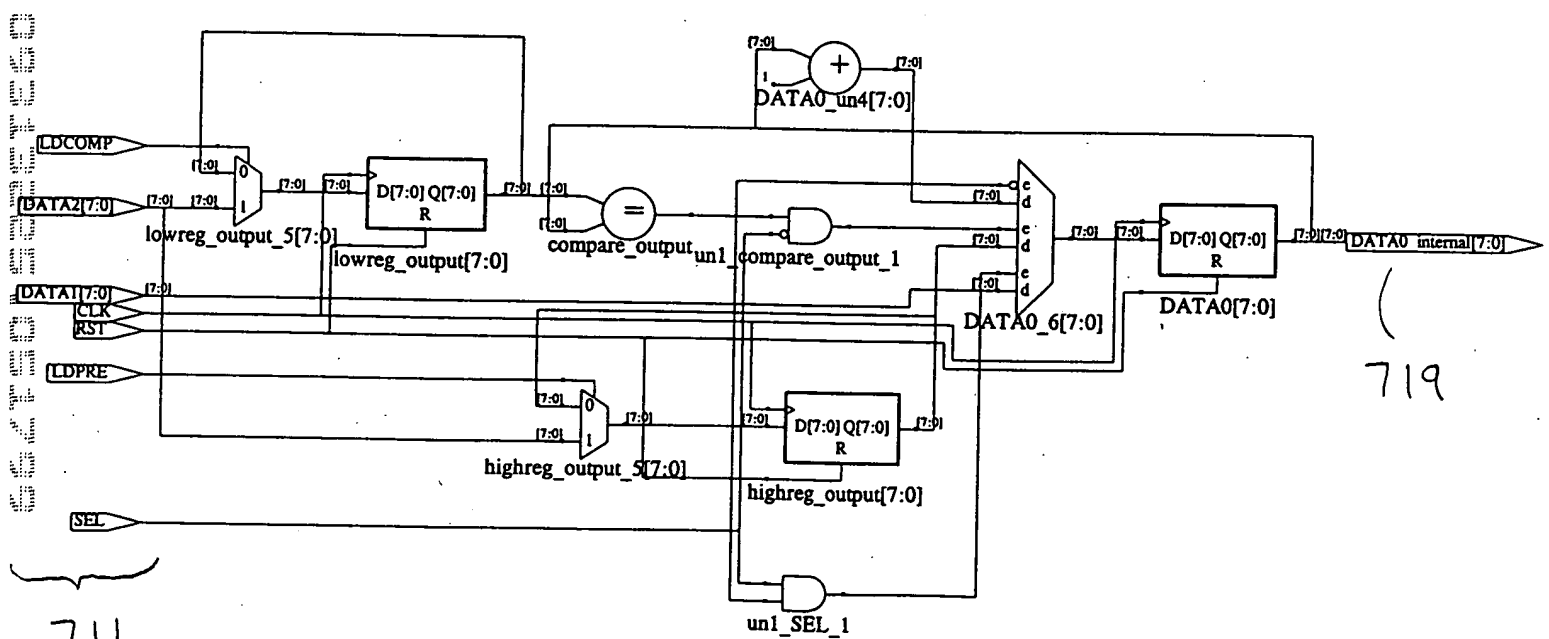


FIG. 8C

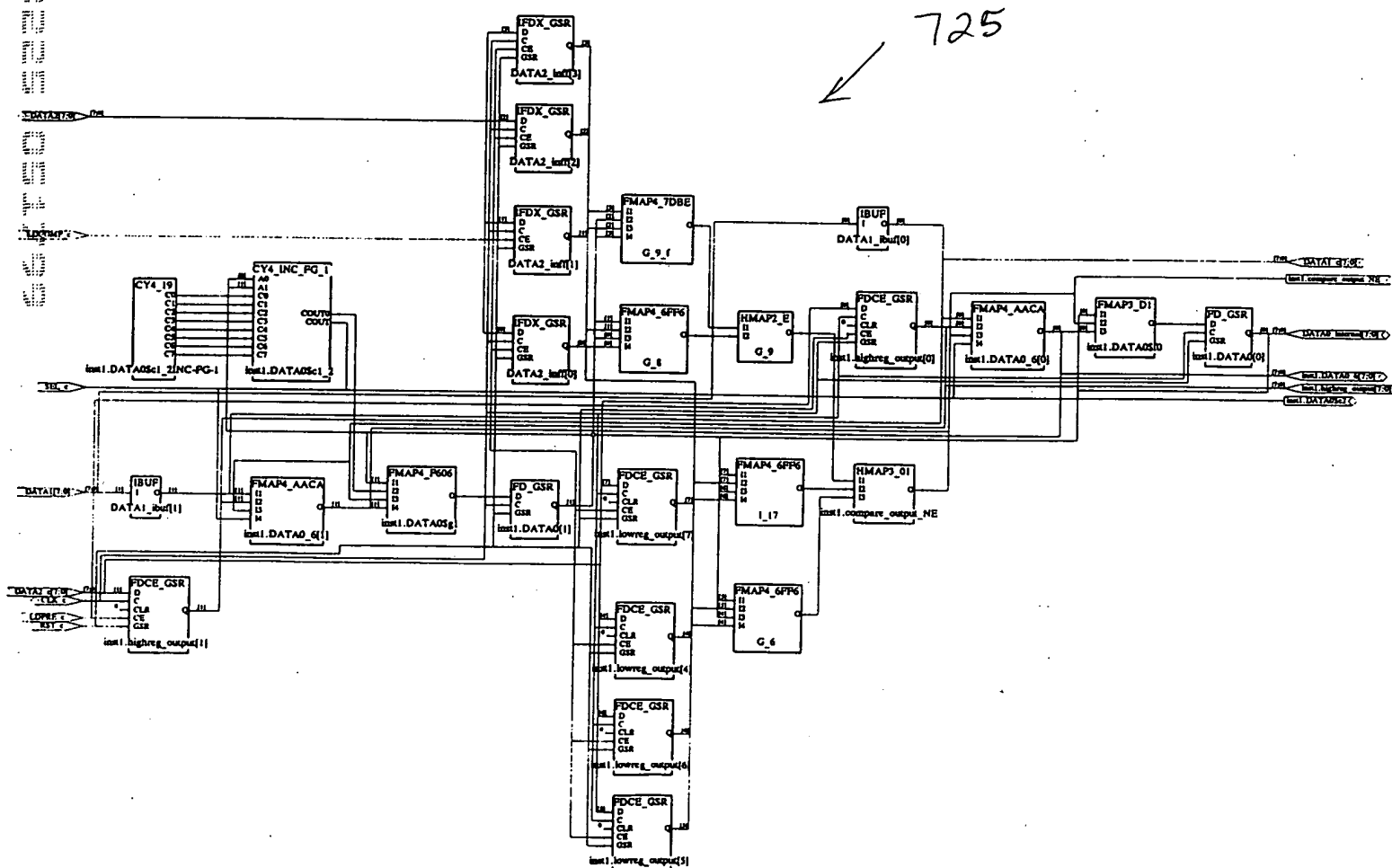
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FIG. 8D



13-782 500 SHEETS, FILLER 5 SQUARE
42-381 50 SHEETS EYE-EASE® 5 SQUARE
42-382 100 SHEETS EYE-EASE® 5 SQUARE
42-383 200 SHEETS EYE-EASE® 5 SQUARE
42-392 100 RECYCLED WHITE 5 SQUARE
42-399 200 RECYCLED WHITE 5 SQUARE

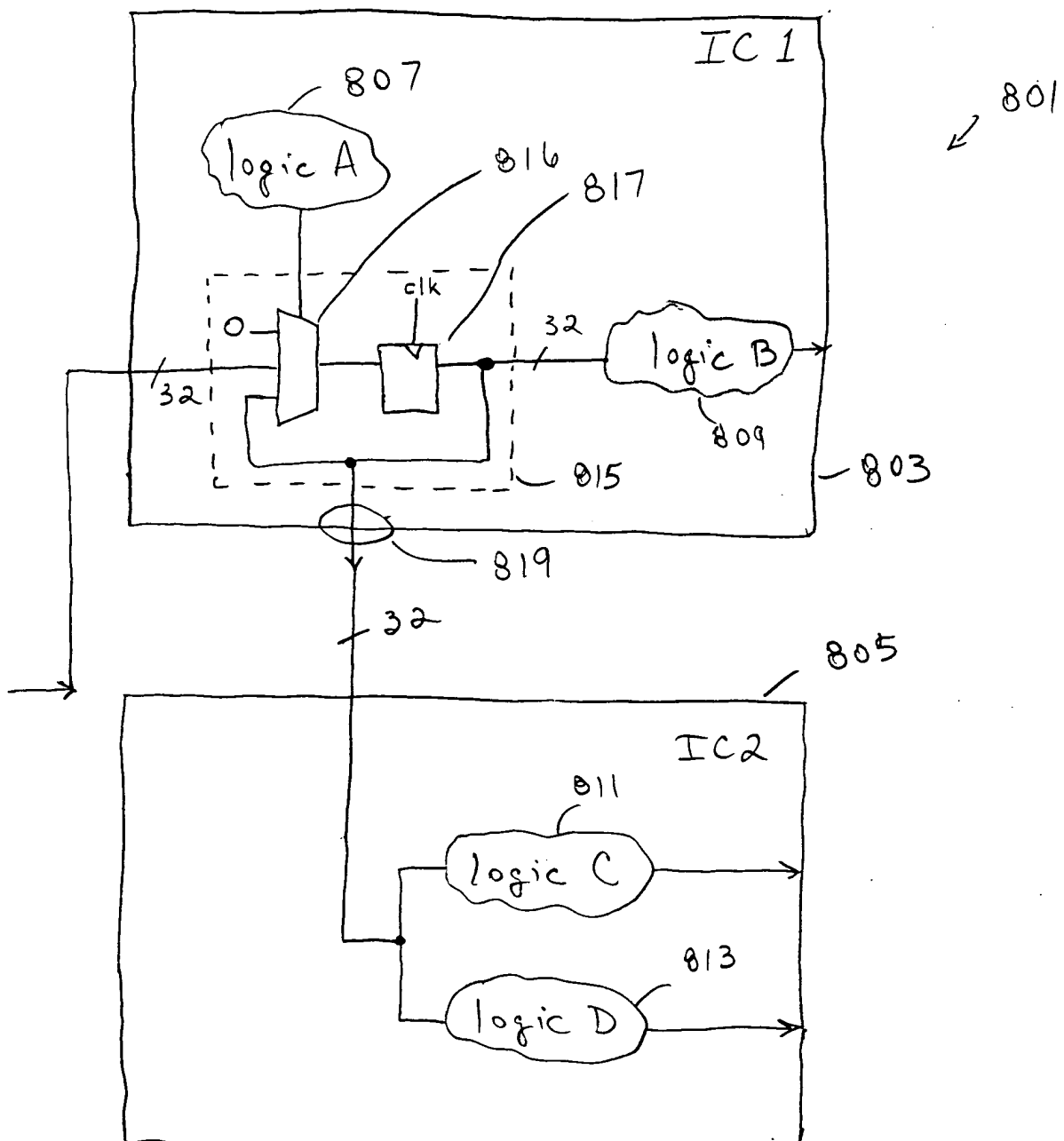
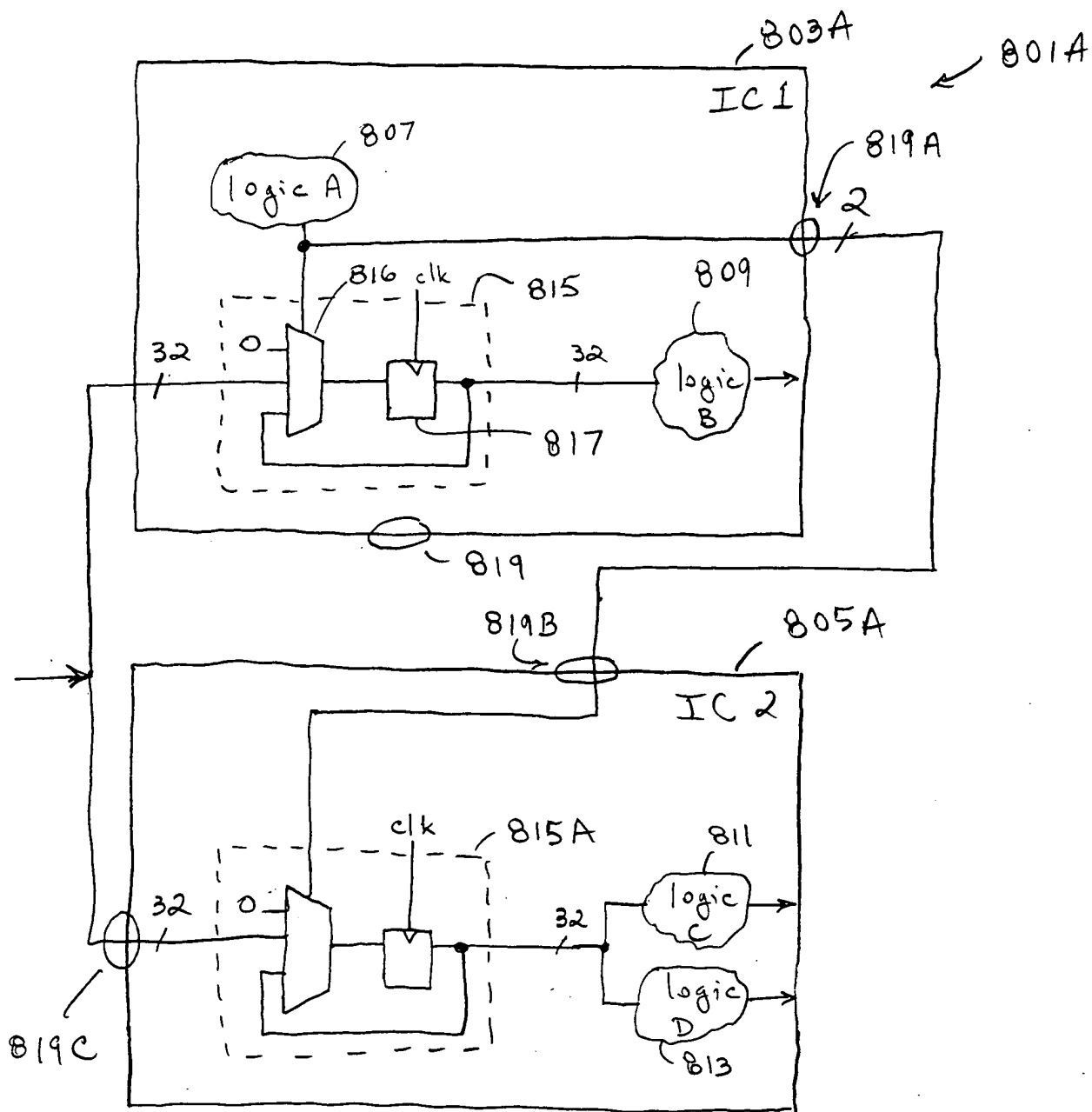


FIG. 9B



500 SHEETS ALLER 5 SQUARE
43-782 500 SHEETS ALLER 5 SQUARE
43-783 500 SHEETS ALLER 5 SQUARE
43-784 500 SHEETS ALLER 5 SQUARE
43-785 500 SHEETS ALLER 5 SQUARE
43-786 500 SHEETS ALLER 5 SQUARE
43-787 500 SHEETS ALLER 5 SQUARE
43-788 500 SHEETS ALLER 5 SQUARE
43-789 500 SHEETS ALLER 5 SQUARE
43-790 500 SHEETS ALLER 5 SQUARE
43-791 500 SHEETS ALLER 5 SQUARE
43-792 500 SHEETS ALLER 5 SQUARE
43-793 500 SHEETS ALLER 5 SQUARE
43-794 500 SHEETS ALLER 5 SQUARE
43-795 500 SHEETS ALLER 5 SQUARE
43-796 500 SHEETS ALLER 5 SQUARE
43-797 500 SHEETS ALLER 5 SQUARE
43-798 500 SHEETS ALLER 5 SQUARE
43-799 500 SHEETS ALLER 5 SQUARE
43-800 500 SHEETS ALLER 5 SQUARE



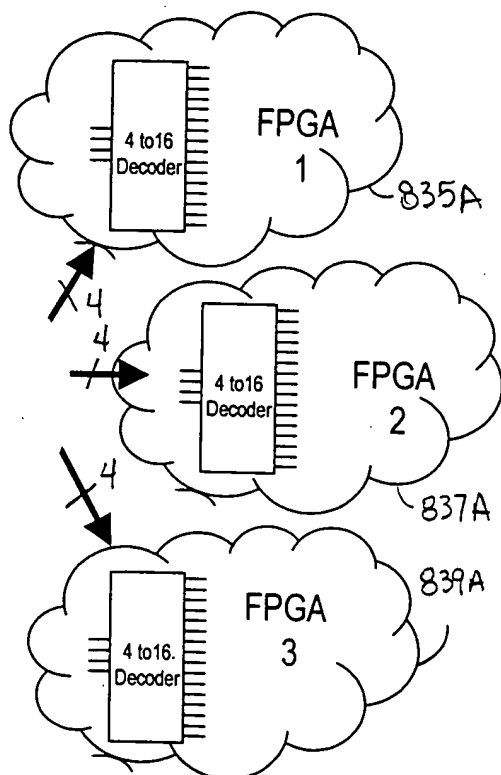
500 SHEETS ALLER 5 SQUARE
43-782 500 SHEETS ALLER 5 SQUARE
43-783 500 SHEETS ALLER 5 SQUARE
43-784 500 SHEETS ALLER 5 SQUARE
43-785 500 SHEETS ALLER 5 SQUARE
43-786 500 SHEETS ALLER 5 SQUARE
43-787 500 SHEETS ALLER 5 SQUARE
43-788 500 SHEETS ALLER 5 SQUARE
43-789 500 SHEETS ALLER 5 SQUARE
43-790 500 SHEETS ALLER 5 SQUARE
43-791 500 SHEETS ALLER 5 SQUARE
43-792 500 SHEETS ALLER 5 SQUARE
43-793 500 SHEETS ALLER 5 SQUARE
43-794 500 SHEETS ALLER 5 SQUARE
43-795 500 SHEETS ALLER 5 SQUARE
43-796 500 SHEETS ALLER 5 SQUARE
43-797 500 SHEETS ALLER 5 SQUARE
43-798 500 SHEETS ALLER 5 SQUARE
43-799 500 SHEETS ALLER 5 SQUARE
43-800 500 SHEETS ALLER 5 SQUARE

13-782	500 SHEETS, FILLER	5 SQUARE
42-361	50 SHEETS EYE-EASE	5 SQUARE
42-362	100 SHEETS EYE-EASE	5 SQUARE
42-369	200 SHEETS EYE-EASE	5 SQUARE
42-392	100 RECYCLED WHITE	5 SQUARE
42-399	200 RECYCLED WHITE	5 SQUARE

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22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

FIG. 9E

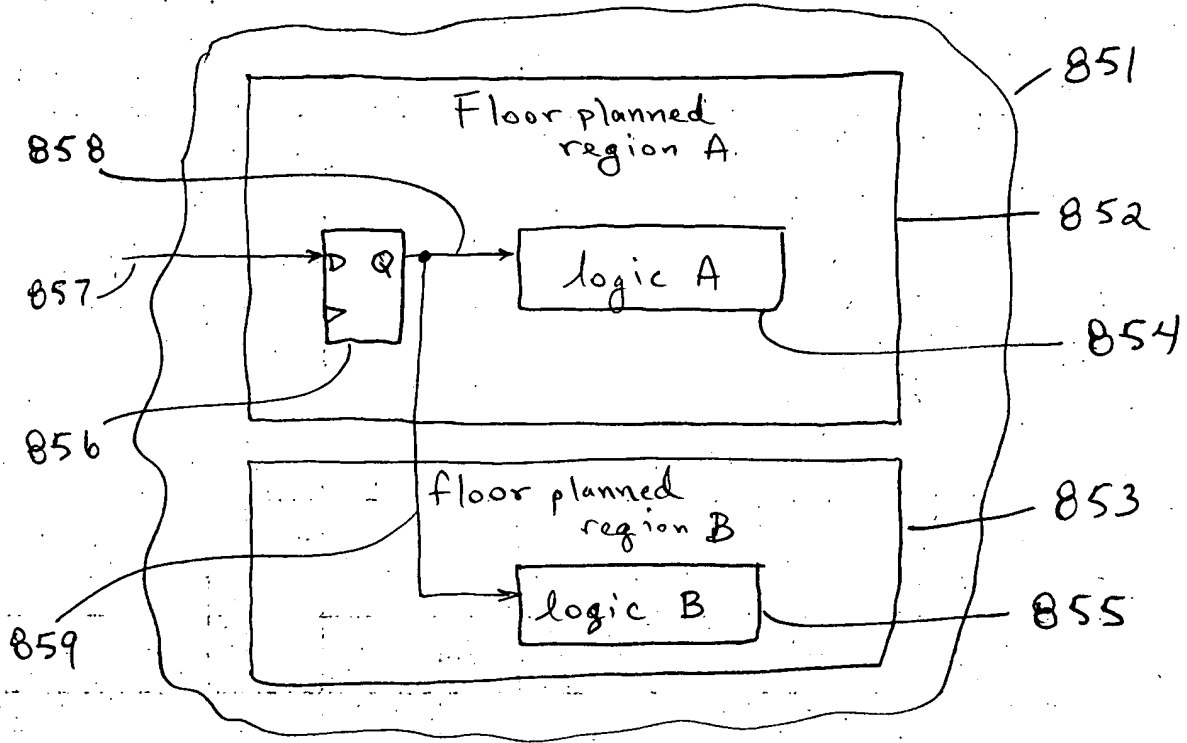
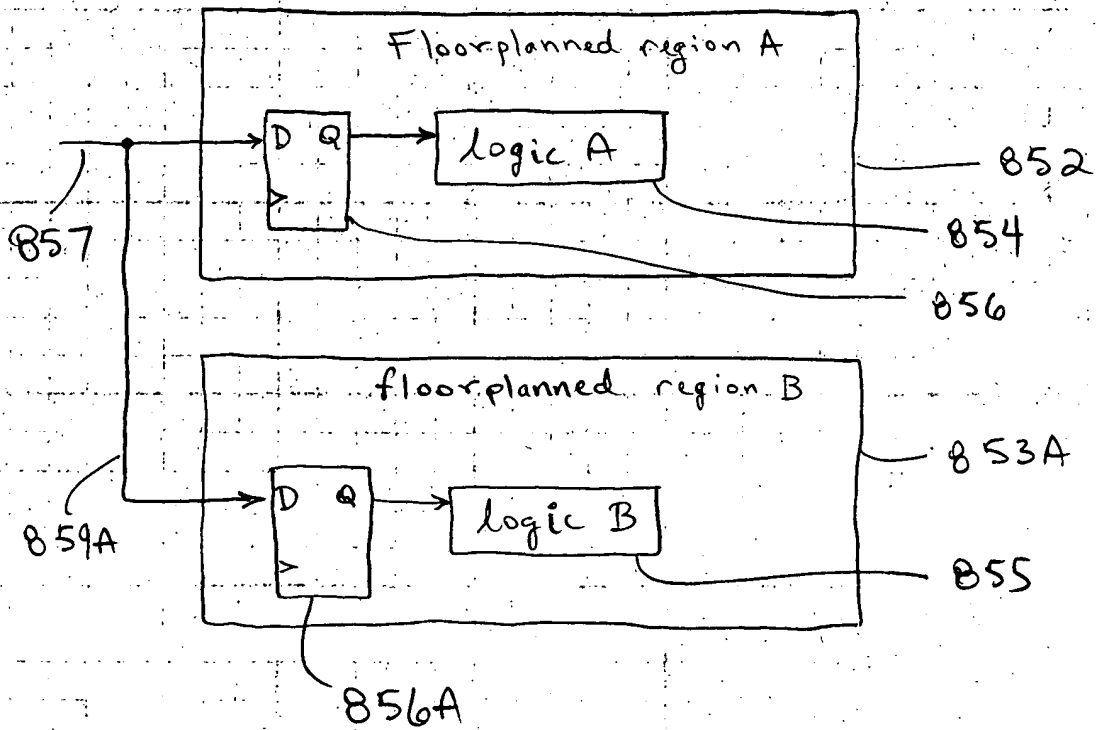


Fig. 9F



13-782	500 SHEETS, FILLED	5 SQUARE
42-381	50 SHEETS EYE-EASE	5 SQUARE
42-382	100 SHEETS EYE-EASE	5 SQUARE
42-389	200 SHEETS EYE-EASE	5 SQUARE
42-392	100 RECYCLED WHITE	5 SQUARE
42-399	200 RECYCLED WHITE	5 SQUARE

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1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

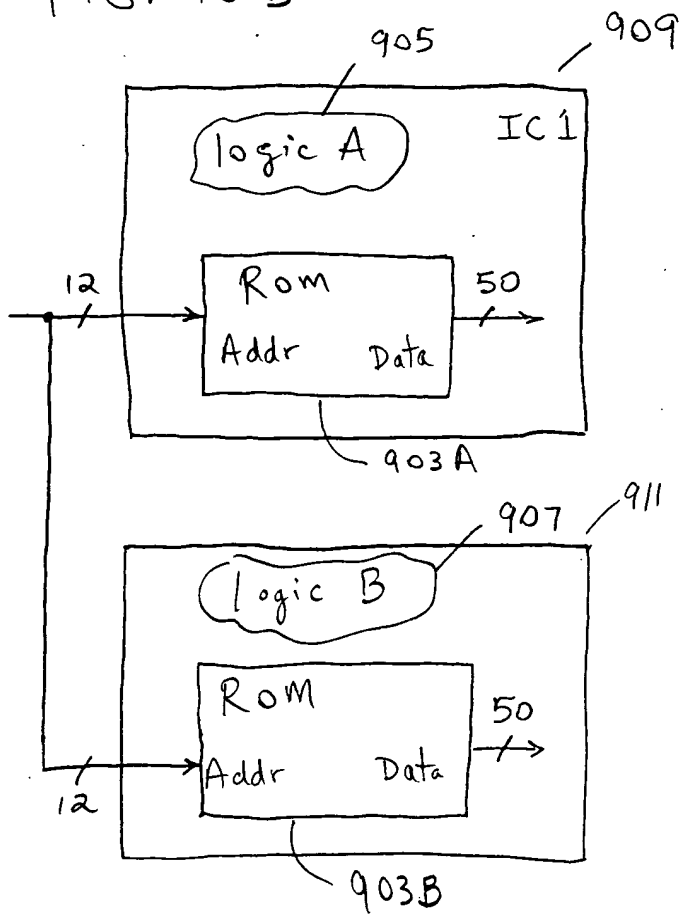


FIG. 10C

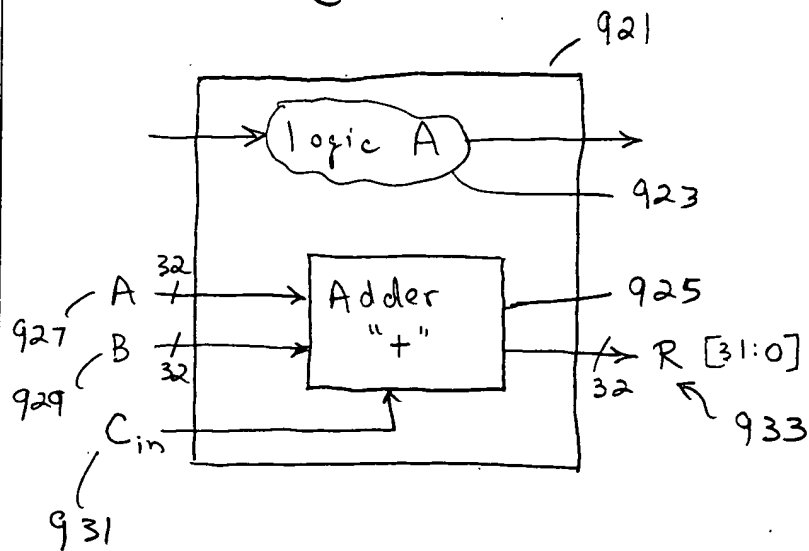
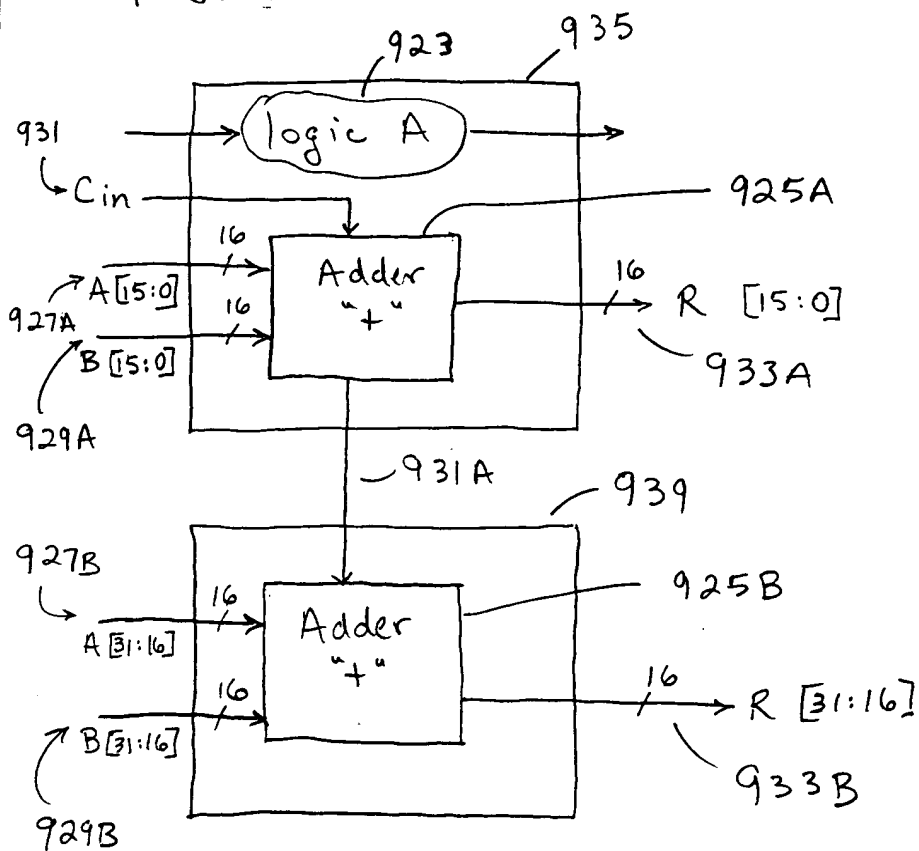
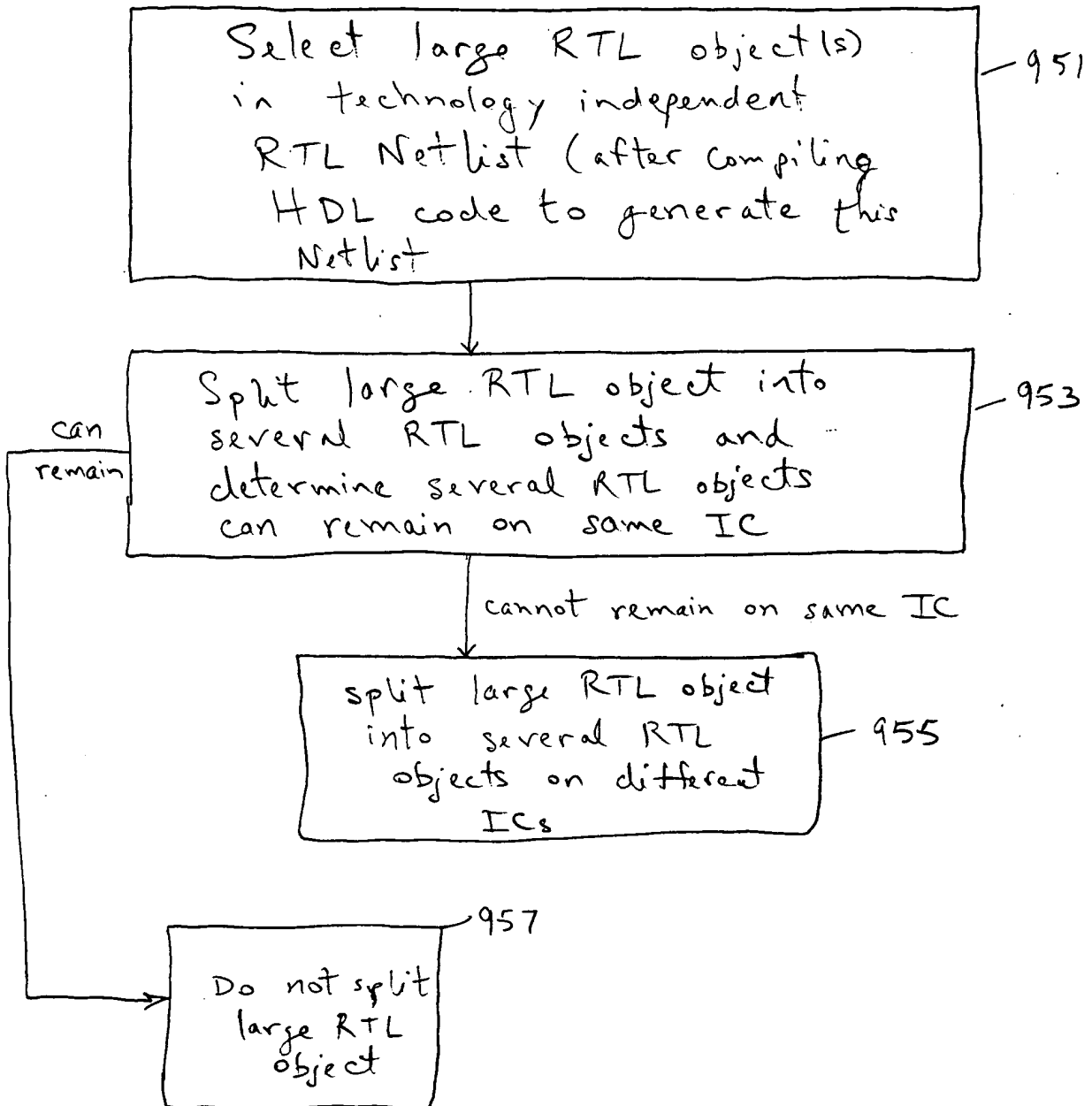


FIG. 10D



13-782	500 SHEETS, FILLER	5 SQUARE
42-381	500 SHEETS EYE-EASE	5 SQUARE
42-382	100 SHEETS EYE-EASE	5 SQUARE
42-389	200 SHEETS EYE-EASE	5 SQUARE
42-392	100 RECYCLED WHITE	5 SQUARE
42-399	200 RECYCLED WHITE	5 SQUARE

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13-782 500 SHEETS, FILLER 5 SQUARE
42-381 50 SHEETS EYE-EASE® 5 SQUARE
42-382 100 SHEETS EYE-EASE® 5 SQUARE
42-383 200 SHEETS EYE-EASE® 5 SQUARE
42-392 100 RECYCLED WHITE 5 SQUARE
42-399 200 RECYCLED WHITE 5 SQUARE

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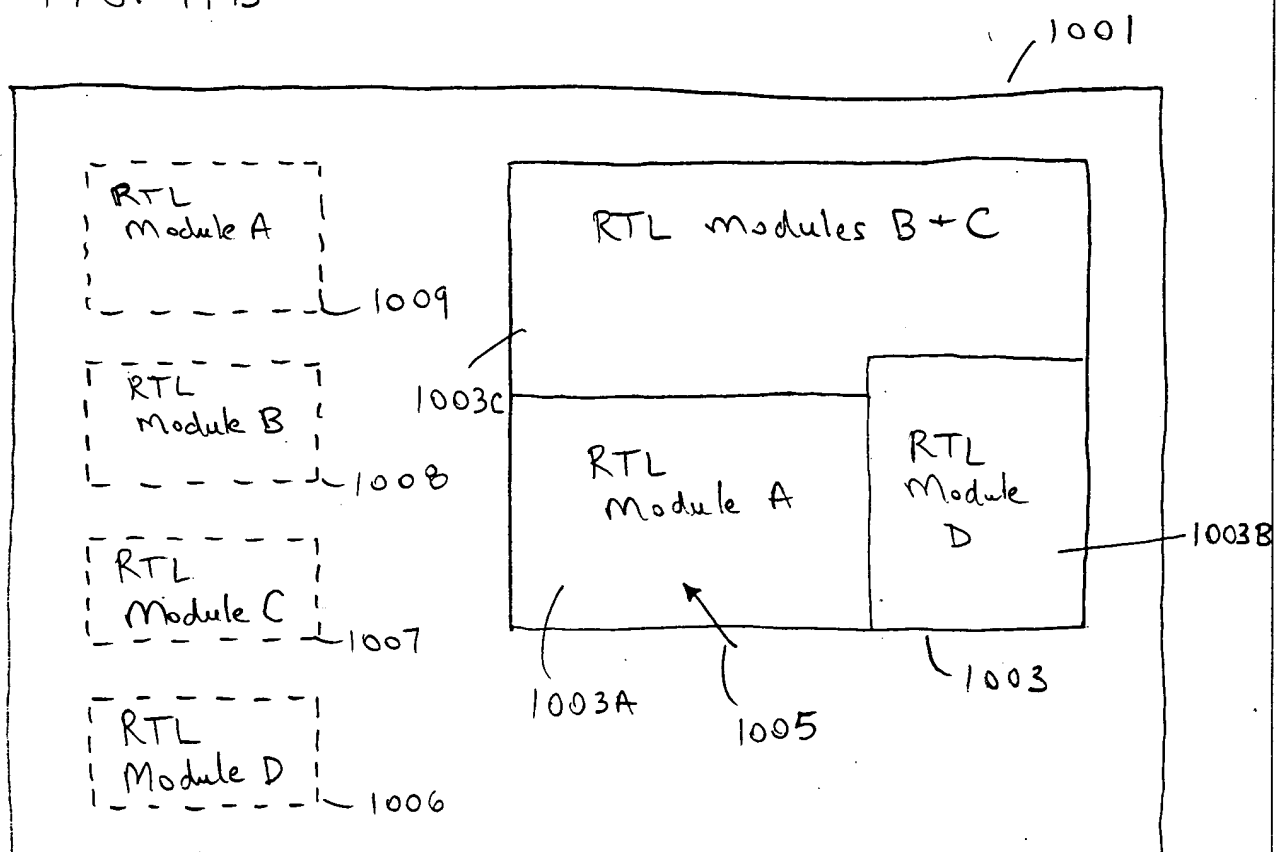
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FIG. 12

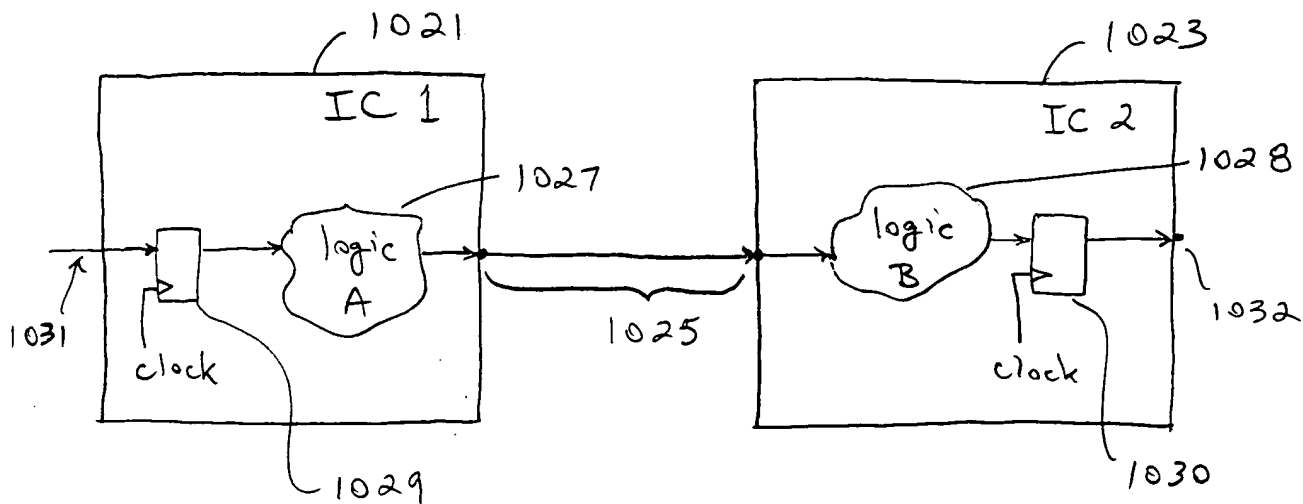


FIG. 13

